Application No.: 10/052,669 Docket No.: 205032000700

## AMENDMENTS TO THE CLAIMS

Please enter the following amendments without prejudice or disclaimer.

Please cancel claims 6, 9-11, and 15 without prejudice or disclaimer.

This listing of claims will replace all prior versions, and listings, of claims in the application:

## In the claims:

Claim 1 (currently amended): A surface-treated plastic slide comprising a plastic slide and a coating on the plastic slide for immobilizing thereon [[thereto]] proteins, peptides or small molecules, comprising a plastic slide and a coating as a spacer on the plastic slide wherein said coating comprises a polyfunctional aldehyde coupled to said plastic slide, a compound providing at least one NH<sub>2</sub> group which is coupled to said polyfunctional aldehyde, and a polyfunctional epoxide compound comprising at least one epoxy group for coupling to said NH<sub>2</sub> group and at least one epoxy group for coupling to said proteins, peptides or small molecules.

- Claim 2 (original): The surface-treated plastic slide as claimed in claim 1, wherein the plastic slide is formed of a material, which is a polycarbonate, or a homopolymer or copolymer that is made of one or more monomers selected from the group consisting of ethylene, haloethylene, propylene, halopropylene, acrylate, methacrylate, butadiene, acrylonitrile, norbornene and styrene.
- Claim 3 (currently amended): The surface-treated plastic slide as claimed in claim [[1]] 2, wherein the plastic slide is formed of a polymer of styrene.
- Claim 4 (original): The surface-treated plastic slide as claimed in claim 1, wherein the plastic slide has at least one cavity chamber.
- Claim 5 (currently amended): The surface-treated plastic slide as claimed in claim 4, wherein the <u>plastic slide has two</u> depth of the cavity chambers [[may be]] having the same or different depth ranging, and ranges from less than 0.03 mm to 0.5 mm.

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Claim 6 (canceled)

Claim 7 (currently amended): The surface-treated plastic slide as claimed in claim [[6]] 1, wherein the polyfunctional aldehyde is glutaldehyde.

Claim 8 (currently amended): The surface-treated plastic slide as claimed in claim 1, wherein the compound providing at least one NH<sub>2</sub> group group(s) providing precursor is NH<sub>4</sub>OH.

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (canceled)

Claim 12 (currently amended): The surface-treated plastic slide as claimed in claim [[10]] 1, wherein the epoxy group(s) at the other end of the polyfunctional epoxide for coupling to said proteins, peptides or small molecules can react with [[the]] their free hydroxyl, sulfhydryl or amino groups of the proteins, peptides or small molecules.

Claim 13 (currently amended): The surface-treated plastic slide as claimed in claim [[10]] 1, wherein the polyfunctional epoxide compound contains a long chemical chain of 6 to 24 carbon atoms.

Claim 14 (original): The surface-treated plastic slide as claimed in claim 1, wherein the proteins, peptides or small molecules are homogeneous or heterogeneous.

Claim 15 (canceled)

Claim 16 (currently amended): The surface-treated polystyrene slide as claimed in elaim 15 comprising a polystyrene slide and a coating on the polystyrene slide for immobilizing

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thereon oligonucleotides or polynucleotides, wherein the coating is formed by applying a reagent emprising to said polystyrene slide a NH<sub>4</sub><sup>+</sup> group-free buffer containing a positive charges-providing polymers under polymer at an alkaline condition.

- Claim 17 (original): The surface-treated polystyrene slide as claimed in claim 16, wherein the positive charges-providing polymer is polylysine.
- Claim 18 (original): The surface-treated polystyrene slide as claimed in claim 16, wherein the NH<sub>4</sub><sup>+</sup> group-free buffer is selected from the group consisting of a carbonate, phosphate and citrate buffer.
- Claim 19 (original): The surface-treated polystyrene slide as claimed in claim 16, wherein the alkaline condition is in the range of pH 9 to 11.
- Claim 20 (currently amended): The surface-treated polystyrene slide as claimed in claim [[45]] 16, wherein the polystyrene slide has at least one cavity chamber.
- Claim 21 (currently amended): The surface-treated polystyrene slide as claimed in claim 20, wherein the depth of the polystyrene slide has two cavity chambers [[may be]] having the same or different depth ranging, and ranges from less than 0.03 mm to 0.5 mm.

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